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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,772	03/25/2004	Soo S. Ko	PH 7054 DIV2	7934
23914 7	23914 7590 09/19/2005		EXAMINER	
STEPHEN B. DAVIS			HABTE, KAHSAY	
BRISTOL-MYERS SQUIBB COMPANY			ART UNIT	PAPER NUMBER
PATENT DEPARTMENT			ARTONI	TATER NOMBER
P O BOX 4000			1624	
PRINCETON,	NJ 08543-4000		DATE MAILED: 09/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)				
	10/809,772	KO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kahsay Habte, Ph. D.	1624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
· · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowa	nce except for formal matters,	prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-50</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-50</u> are subject to restriction and/or	8) Claim(s) <u>1-50</u> are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Information (6) Other:	al Patent Application (PTO-152)				
U.S. Patent and Trademark Office	etion Summary	Part of Paper No./Mail Date 09082005				

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## **DETAILED ACTION**

1. Claims 1-50 are pending in this application.

## Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-21 (in part), 23 (in part), 25-30 (in part), 32 (in part) and 34-42 (in part), drawn to thiomorpholines (i.e. Y = S), classified in class 544, subclass 60.
  - II. Claims 1-21 (in part), 23 (in part), 25-30 (in part), 32 (in part) and 34-42 (in part), drawn to morpholines (i.e. Y = O), classified in class 544, subclass 124.
  - III. Claims 1-21 (in part), 23(in part), 32 (in part) and 34-42 (in part), drawn to piperazines (i.e. Y = N), classified in class 544, subclass 360.
  - IV. Claims 1-12 (in part), 26-30 (in part) and 34-42 (in part), drawn to Y = isoquinolines, classified in class 546, subclass 139.
  - V. Claims 1-12 (in part) 26-30 (in part) and 34-42 (in part), drawn to Y = quinolines, classified in class 546, subclass 152.
  - VI. Claims 1-21 (in part), 22, 24, 26-30 (in part), 31, 33 and 34-42 (in part), drawn to Y = piperidines, classified in class 546, subclass 186.
  - VII. Claims 1-14 (in part), 26-30 (in part) and 34-42 (in part), drawn to Y = pyrrolidines, classified in class 546, subclass 187.

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VIII. Claims 43-50, drawn to a method of use, classified in class 514, subclass various.

The inventions are distinct, each from the other because of the following reasons: Groups I-VII are directed to structurally dissimilar compounds such that the variable core created by the varying definitions of Y in the compound formula I do not belong to the same recognized class of chemical compounds in the art, and references anticipating one invention, would not render obvious the others. Group I is drawn to thiomorpholines (six-membered ring with N and S at 1,4-positions) and is different from Groups II-VII. Group II is drawn to morpholines (six-membered ring with N and O at 1,4-positions) and is different from Group I or Groups III-VII. Group III is drawn to piperazines (2 nitrogens in a six-membered ring) that is not present in Groups I-II and III-VII. Group IV is drawn to isoquinolines (benzo ring fused to a piperidine ring) and is different from Groups I-III and V-VII, since this core structure is not present in other groups. Group IV differs from Groups V, since the position of the nitrogen in Group IV is at 2-position. Group V is drawn to guinolines (benzofused to a piperidine ring) and is different from other groups. Note that in Group V, the position of the nitrogen atom is at 1-position. Group VI is drawn to Y = unfused piperidine compounds (one nitrogen in a six-membered ring) and is different from Groups I-V and VII. Group VII is drawn to Y= pyrrolidines (5-membered ring with one nitrogen) and is different from Groups I-VI. Thus, separate searches in the literature as well as in the U.S. Patent Classification System would be required. Each group's compounds are made and used independently of each other and could support separate patents. The compounds differ

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significantly in chemical structures. One skilled in the art would not consider such diverse structure equivalents of each other.

Inventions I-VII and VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case thiomorpholines are used in the treatment of pain that is materially different process.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

#### Advisory Rejoinder

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy. Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

A telephone call was made to Ms. Mary VanAtten on August 24, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (571) 272-0667. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Wilson can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kahsay Habte, Ph. D.

Examiner Art Unit 1624

9/16/05